

CLAIMS

1. A coin-shaped storage cell comprising:
a pair of polarizable electrodes;
an insulating separator which is interposed between the polarizable electrodes;
an electrolytic solution which is impregnated in the polarizable electrode pair and the separator;
a metal case for housing the polarizable electrode pair;
an insulating ring packing which is disposed inside the metal case; and
a top lid which is integrally caulked with the metal case via the ring packing, wherein
the metal case includes an inner bottom surface formed with asperities.
2. The coin-shaped storage cell according to claim 1, wherein
the asperities are formed by satin finish.
3. The coin-shaped storage cell according to claim 1, wherein
the asperities are in the form of a plurality of concentric circular rings,
the asperities being formed by making the center of the circular rings and the center of the inner bottom surface of the metal case in agreement with each other.
4. The coin-shaped storage cell according to any one of claims 1 to

3, wherein

the asperities are formed only on an area of the inner bottom surface of the metal case where the metal case opposes the ring packing.

5. The coin-shaped storage cell according to claim 1 or claim 2, wherein

the asperities are formed over an entire area on the inner bottom surface of the metal case.

6. The coin-shaped storage cell according to any one of claims 1 to 5, further comprising a sealing auxiliary member which is interposed between the metal case and the ring packing.

7. The coin-shaped storage cell according to claim 6, wherein the sealing auxiliary member is provided only at such an area as to substantially cover the asperities on the inner bottom surface of the metal case.

8. A coin-shaped storage cell comprising:
a pair of polarizable electrodes;
an insulating separator which is interposed between the polarizable electrodes;
an electrolytic solution which is impregnated in the polarizable electrode pair and the separator;

a metal case for housing the polarizable electrode pair;
an insulating ring packing which is disposed inside the metal case; and
a top lid which is integrally caulked with the metal case via the ring packing, wherein

the ring packing includes a bottom surface formed with a first annular bulging portion, the first annular bulging portion protruding toward the metal case.

9. The coin-shaped storage cell according to claim 8, wherein
the first annular bulging portion has such a configuration that an average radius obtained by connecting midpoints between an inner radius and an outer radius of the bottom surface of the ring packing is defined as a centerline of the first annular bulging portion.

10. The coin-shaped storage cell according to any one of claims 1 to 9, further comprising a second annular bulging portion which is integrally formed with an outer periphery of the metal case, the second annular bulging portion protruding toward the ring packing.

11. The coin-shaped storage cell according to claim 10, wherein
the second annular bulging portion is located above an end portion of a bent portion of the top lid.

12. The coin-shaped storage cell according to any one of claims 1 to 11, further comprising a third annular bulging portion which is formed on the inner bottom surface of the metal case at a radially inner position relative to the ring packing, the third annular bulging portion protruding toward the polarizable electrode pair.

13. The coin-shaped storage cell according to any one of claims 1 to 12, wherein

the top lid and the metal case have respective outer surfaces thereof to be connectable with external terminals each in the shape of a substantially triangular shape.